

IN THE CLAIMS:

1. (Currently Amended) A device for iontophoresis supplying a drug to transdermal or transmucosal tissues, comprising:

first means having a detection circuit for detecting a reactive current flowing through a capacity component of impedance of the transdermal or the transmucosal and/or a detection circuit for detecting a residual voltage developed ~~in~~ by the charge remaining in a capacity component of impedance of the transdermal or the transmucosal during an off-period of an output; and second means for determining a conduction state of current into the transdermal or the transmucosal based on the output detected by the first means.

2. (Previously Amended) the device for iontophoresis according to Claim 1, wherein the detection circuit for detecting the reactive current includes a resistor coupled to an output terminal, a switch for sending one of positive and negative waveforms of current from the resistor, and a capacitor for smoothing out the current waveform from the switch.

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3. (Previously Amended) The device for iontophoresis according to Claim 1, wherein the detection circuit for detecting the residual voltage includes a discharging resistor coupled between output terminals.

4. (Currently Amended) A method for determining an operation

of an iontophoresis apparatus, wherein a reactive current flowing through a capacity component of impedance of the transdermal or the transmucosal and/or a residual voltage developed ~~in~~ by the charge remaining in a capacity component of impedance of the transdermal or the transmucosal during an off-period of an output is detected to determine a conduction state of current flowing into the transdermal or the transmucosal.

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5. (Previously Amended) The method for detecting an operation of an iontophoresis apparatus according to Claim 4, wherein the detection of the reactive current is carried out so as to send one of positive and negative waveforms of current from a resistor coupled to an output terminal by using a switch and smoothing out the current waveform by using a capacitor.

6. (Previously Amended) The method for detecting an operation of an iontophoresis apparatus according to Claim 4, wherein the detection of the residual voltage is carried out by using a discharging resistor coupled between output terminals.

7. (Currently Amended) An iontophoresis apparatus comprising:

a preparation for iontophoresis, holding a drug; and

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a device for iontophoresis having means for generating an electrical output to supply a drug from the preparation into transdermal or transmucosal and means for detecting a reactive current flowing through a capacity component of impedance of the transdermal or the transmucosal and/or a residual voltage developed in by the charge remaining in a capacity component of impedance of the transdermal or the transmucosal during an off-period of an output to determine a conduction state of a current flowing into the transdermal or the transmucosal.
